



HYGIENETECH

Hygiene Technologies International, Inc.

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May 6, 2011

State of California
Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21104001.2

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Survey
10th Floor

Dear Mr. Gau:

On April 28, 29, and May 3, 2011, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited fungal growth exposure assessment survey on the 10TH Floor of the State of California Board of Equalization (BOE) building located at 450 N Street in Sacramento, California. The survey findings, along with the analytical data, and conclusions appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-PumpTM equipped with Air-O-CellTM cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 21104001-21, the airborne spore count data recorded showed mostly common fungal spore types outdoors, such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Botrytis*, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Nigrospora*, *Oidium*, other brown, other colorless, rusts, smuts, and/or *Torula*. Indoors, the ambient data showed that airborne fungal spores were either not detected at or above the laboratory analytical detection limit or were detected at low airborne concentrations. The common fungal spore types found indoors included *Cladosporium*, rusts, smuts, and/or *Torula*. Indoors, the distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors and the overall data within the tested areas were well below the overall data recorded outdoors. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time the survey was performed and at the precise sample locations indicated, the latter of which were selected based on the available background information provided.

Los Angeles • San Francisco • Sacramento • Fresno • Bakersfield • Ontario • San Diego
Seattle • Chicago • Cleveland • New Orleans • Norfolk • New York
Brussels • Vienna • Abuja • Mumbai • Beijing



Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the survey.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

A handwritten signature in black ink, appearing to read "Kenny", followed by a long horizontal line that extends to the right.

Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A



CLIENT: State of California
Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21104001-21
AIRBORNE TOTAL FUNGI RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
APRIL 28, 29, AND MAY 3, 2011

Page 1

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-21-TM01OUT	21104001-21-TM02	21104001-21-TM03	21104001-21-TM04
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	Elevator lobby; about center; approximately five feet above floor/Normal office activities	Northern hallway; northwestern corner; about center; approximately five feet above floor/Normal office activities	Conference Room 1007; entry door area; about center; approximately five feet above floor/Sampling activities only
DATE	04-28-11	04-28-11	04-28-11	04-28-11
START/STOP	16:52:00/16:57:00	16:58:00/17:03:00	17:09:00/17:14:00	17:16:00/17:21:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40			
Ascospores				
Basidiospores	270			
Bipolaris/Drechslera group				
Botrytis	40			
Chaetomium				
Cladosporium	1,400		53	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium	40			
Other brown	40			
Other colorless	13			
Penicillium/Aspergillus types				
Pithomyces				
Rusts	27	13		
Smuts (Periconia, Myxomycetes)	680	13	40	27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	170	<13	<13	<13
Background debris*	3+	2+	2+	2+
TOTAL**	2,500	27	93	27

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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450 N Street
Sacramento, California 94279

TABLE 21104001-21
AIRBORNE TOTAL FUNGI RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
APRIL 28, 29, AND MAY 3, 2011

Page 2

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-21-TM05OUT	21104001-21-TM06	21104001-21-TM07	21104001-21-TM08
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	Column K20 area; Cubicle immediately east of Column K20; about center; approximately five feet above floor/Normal office activities	Column K22 area; Cubicle 10/043; about center; approximately five feet above floor/Normal office activities	Area between Column L23 and M23; Cubicle 10/060; about center; approximately five feet above floor/Normal office activities
DATE	04-29-11	04-29-11	04-29-11	04-29-11
START/STOP	14:18:00/14:23:00	14:43:00/14:48:00	14:50:00/14:55:00	14:56:00/15:01:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13			
Ascospores				
Basidiospores				
Bipolaris/Drechslera group	13			
Botrytis				
Chaetomium	67			
Cladosporium	320		53	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium	27			
Other brown	13			
Other colorless	13			
Penicillium/Aspergillus types				
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)	230			
Stachybotrys				
Stemphylium				
Torula	53			13
Ulocladium				
Zygomycetes				
Hyphal fragments	110	<13	<13	13
Background debris*	4+	1+	1+	2+
TOTAL **	760	<13	53	13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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TABLE 21104001-21
AIRBORNE TOTAL FUNGI RESULTS
10TH FLOOR
SACRAMENTO, CALIFORNIA
APRIL 28, 29, AND MAY 3, 2011

Page 3

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-21-TM09	21104001-21-TM10OUT	21104001-21-TM11	21104001-21-TM12
SAMPLING LOCATION/ACTIVITIES	Column N22 area; Cubicle 10/084; about center; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	Column K18 area; Cubicle 10/004; about center; approximately five feet above floor/Normal office activities	Area between Column L17 and M17; Cubicle 145 entryway; about center; approximately five feet above floor/Normal office activities
DATE	04-29-11	05-03-11	05-03-11	05-03-11
START/STOP	15:02:00/15:07:00	08:36:00/08:41:00	08:45:00/08:50:00	08:53:00/08:58:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Ascospores		110		
Basidiospores		530		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		13		
Cladosporium	53	210	53	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora		13		
Oidium		13		
Other brown		120		
Other colorless				
Penicillium/Aspergillus types		110		
Pithomyces				
Rusts		27		
Smuts (Periconia, Myxomycetes)	13	120		
Stachybotrys				
Stemphylium				
Torula		13		
Ulocladium				
Zygomycetes				
Hyphal fragments	13	80	<13	<13
Background debris*	1+	4+	2+	2+
TOTAL **	67	1,300	53	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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10TH FLOOR
SACRAMENTO, CALIFORNIA
APRIL 28, 29, AND MAY 3, 2011

Page 4

Results reported in spores per cubic meter of air (spores/M³)

SAMPLE NUMBER	21104001-21-TM13	21104001-21-TM14		
SAMPLING LOCATION/ACTIVITIES	Column N18 area; Cubicle 113 entryway; about center; approximately five feet above floor/Normal office activities	Column N20 area; about two feet north of Column N20; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	05-03-11	05-03-11		
START/STOP	08:59:00/09:04:00	09:05:00/09:10:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula	13			
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13		
Background debris*	2+	2+		
TOTAL**	13	53		

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.



Report for:

Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken Tse
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21104001-21; Sampled 4/28/11, 4/29/11, 5/3/11
EML ID: 779521

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:

Spore trap analysis: 05-04-2011

Service SOPs: Spore trap analysis (1038)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-21 TM01OUT		21104001-21 TM02		21104001-21 TM03		21104001-21 TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	3450198-1		3450199-1		3450200-1		3450201-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40						
Ascospores*								
Aureobasidium								
Basidiospores*	5	270						
Bipolaris/Drechslera group								
Botrytis	3	40						
Chaetomium								
Cladosporium	26	1,400			1	53		
Curvularia								
Epicoccum								
Fusarium								
Nigrospora								
Oidium	3	40						
Other brown	3	40						
Other colorless	1	13						
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*	2	27	1	13				
Smuts*, Periconia, Myxomycetes*	51	680	1	13	3	40	2	27
Stachybotrys								
Torula								
Ulocladium								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	170		< 13		< 13		< 13	
Pollen/m3	2,500		53		27		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,500		27		93		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-21 TM05OUT		21104001-21 TM06		21104001-21 TM07		21104001-21 TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	3450202-1		3450203-1		3450204-1		3450205-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13						
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group	1	13						
Botrytis								
Chaetomium	5	67						
Cladosporium	6	320			1	53		
Curvularia								
Epicoccum								
Fusarium								
Nigrospora								
Oidium	2	27						
Other brown	1	13						
Other colorless	1	13						
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*	1	13						
Smuts*, Periconia, Myxomycetes*	17	230						
Stachybotrys								
Torula	4	53					1	13
Ulocladium								
Background debris (1-4+)††	4+		1+		1+		2+	
Hyphal fragments/m3	110		< 13		< 13		13	
Pollen/m3	110		< 13		13		13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		760		< 13		53		13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-21 TM09		21104001-21 TM10OUT		21104001-21 TM11		21104001-21 TM12	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	3450206-1		3450207-1		3450208-1		3450209-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Ascospores*			2	110				
Aureobasidium								
Basidiospores*			10	530				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium			1	13				
Cladosporium	1	53	4	210	1	53		
Curvularia								
Epicoccum								
Fusarium								
Nigrospora			1	13				
Oidium			1	13				
Other brown			9	120				
Other colorless								
Penicillium/Aspergillus types†			2	110				
Pithomyces								
Rusts*			2	27				
Smuts*, Periconia, Myxomycetes*	1	13	9	120				
Stachybotrys								
Torula			1	13				
Ulocladium								
Background debris (1-4+)††	1+		4+		2+		2+	
Hyphal fragments/m3	13		80		< 13		< 13	
Pollen/m3	< 13		170		< 13		13	
Skin cells (1-4+)	1+		< 1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		67		1,300		53		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

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§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21104001-21 TM13		21104001-21 TM14	
Comments (see below)	None		None	
Lab ID-Version†:	3450210-1		3450211-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Ascospores*				
Aureobasidium				
Basidiospores*				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			1	53
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types†				
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*				
Stachybotrys				
Torula	1	13		
Ulocladium				
Background debris (1-4+)††	2+		2+	
Hyphal fragments/m3	< 13		< 13	
Pollen/m3	< 13		< 13	
Skin cells (1-4+)	1+		1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		13		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

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Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21104001-21 TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: May				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	40	7	27	330	54	7	27	230	52
Bipolaris/Drechslera group	-	7	13	170	15	7	13	130	12
Chaetomium	-	7	13	120	13	7	13	120	19
Cladosporium	1,400	31	480	7,800	94	53	590	7,800	96
Curvularia	-	7	13	330	9	7	13	230	7
Nigrospora	-	7	13	160	8	7	13	200	9
Other brown	40	7	13	93	29	7	13	93	33
Other colorless	13	7	13	280	5	7	13	130	4
Penicillium/Aspergillus types	-	17	160	1,600	70	33	210	2,400	83
Stachybotrys	-	7	13	280	3	7	13	230	4
Torula	-	7	13	190	12	7	13	160	11
Seldom found growing indoors**									
Ascospores	-	13	210	8,000	82	13	110	2,100	69
Basidiospores	270	13	290	11,000	92	13	210	8,700	92
Botrytis	40	7	13	190	10	7	13	200	15
Oidium	40	7	20	270	22	7	13	200	18
Rusts	27	7	13	240	22	7	13	270	25
Smuts, Periconia, Myxomycetes	680	7	47	840	72	7	40	560	67
§ TOTAL SPORES/m3	2,500								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21104001-21 TM05OUT

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: May				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	27	330	54	7	27	230	52
Bipolaris/Drechslera group	13	7	13	170	15	7	13	130	12
Chaetomium	67	7	13	120	13	7	13	120	19
Cladosporium	320	31	480	7,800	94	53	590	7,800	96
Curvularia	-	7	13	330	9	7	13	230	7
Nigrospora	-	7	13	160	8	7	13	200	9
Other brown	13	7	13	93	29	7	13	93	33
Other colorless	13	7	13	280	5	7	13	130	4
Penicillium/Aspergillus types	-	17	160	1,600	70	33	210	2,400	83
Stachybotrys	-	7	13	280	3	7	13	230	4
Torula	53	7	13	190	12	7	13	160	11
Seldom found growing indoors**									
Ascospores	-	13	210	8,000	82	13	110	2,100	69
Basidiospores	-	13	290	11,000	92	13	210	8,700	92
Botrytis	-	7	13	190	10	7	13	200	15
Oidium	27	7	20	270	22	7	13	200	18
Rusts	13	7	13	240	22	7	13	270	25
Smuts, Periconia, Myxomycetes	230	7	47	840	72	7	40	560	67
§ TOTAL SPORES/m3	760								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

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Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 21104001-21 TM10OUT

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: May				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	330	54	7	27	230	52
Bipolaris/Drechslera group	-	7	13	170	15	7	13	130	12
Chaetomium	13	7	13	120	13	7	13	120	19
Cladosporium	210	31	480	7,800	94	53	590	7,800	96
Curvularia	-	7	13	330	9	7	13	230	7
Nigrospora	13	7	13	160	8	7	13	200	9
Other brown	120	7	13	93	29	7	13	93	33
Other colorless	-	7	13	280	5	7	13	130	4
Penicillium/Aspergillus types	110	17	160	1,600	70	33	210	2,400	83
Stachybotrys	-	7	13	280	3	7	13	230	4
Torula	13	7	13	190	12	7	13	160	11
Seldom found growing indoors**									
Ascospores	110	13	210	8,000	82	13	110	2,100	69
Basidiospores	530	13	290	11,000	92	13	210	8,700	92
Botrytis	-	7	13	190	10	7	13	200	15
Oidium	13	7	20	270	22	7	13	200	18
Rusts	27	7	13	240	22	7	13	270	25
Smuts, Periconia, Myxomycetes	120	7	47	840	72	7	40	560	67
§ TOTAL SPORES/m3	1,300								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Outdoor Summary: 21104001-21 TM01OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				40	7 - 27 - 440	49
Ascospores				ND	13 - 160 - 5,200	76
Basidiospores				270	13 - 370 - 19,000	91
Botrytis				40	7 - 13 - 210	8
Cladosporium				1,400	27 - 480 - 9,700	92
Oidium				40	7 - 13 - 240	13
Other brown				40	7 - 13 - 110	28
Other colorless				13	7 - 13 - 340	5
Penicillium/Aspergillus types				ND	13 - 180 - 2,500	74
Rusts				27	7 - 20 - 330	21
Smuts, Periconia, Myxomycetes				680	7 - 40 - 850	66
Total				2,533		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples**Location: 21104001-21 TM02**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.2792 Critical value: 0.5833 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.8083 Critical value: 0.5833 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Cladosporium				53
Smuts, Periconia, Myxomycetes				40
Total				93

Location: 21104001-21 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6167 Critical value: 0.5833 Outside Similar: Yes	Score: 104 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Smuts, Periconia, Myxomycetes				27
Total				27

Location: 21104001-21 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
None Detected				N/A

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6917 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Total				53

Location: 21104001-21 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: 10 Result: 0.1212 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Torula				13
Total				13

Location: 21104001-21 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.8083 Critical value: 0.5833 Outside Similar: Yes	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Smuts, Periconia, Myxomycetes				13
Total				67

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6917 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Cladosporium				
Total				53

Location: 21104001-21 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
None Detected				N/A

Location: 21104001-21 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: 10 Result: 0.1212 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Torula				13
Total				13

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken



Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6917 Critical value: 0.5833 Outside Similar: Yes	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Total				53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Outdoor Summary: 21104001-21 TM05OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				13	7 - 27 - 440	49
Ascospores				ND	13 - 160 - 5,200	76
Basidiospores				ND	13 - 370 - 19,000	91
Bipolaris/Drechslera group				13	7 - 13 - 220	18
Chaetomium				67	7 - 13 - 150	11
Cladosporium				320	27 - 480 - 9,700	92
Oidium				27	7 - 13 - 240	13
Other brown				13	7 - 13 - 110	28
Other colorless				13	7 - 13 - 340	5
Penicillium/Aspergillus types				ND	13 - 180 - 2,500	74
Rusts				13	7 - 20 - 330	21
Smuts, Periconia, Myxomycetes				230	7 - 40 - 850	66
Torula				53	7 - 13 - 170	10
Total				760		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples**Location: 21104001-21 TM02**

Location: 2116-1001 21-11-02															
% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)											
Result: 3%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.3788 Critical value: 0.5515 Outside Similar: No	Score: 102 Result: Low											
Species Detected		Spores/m3													
		<100	1K				10K				>100K				
Rusts		<div><div></div></div>												13	
Smuts, Periconia, Myxomycetes		<div><div></div></div>												13	
Total		<div><div></div></div>												27	

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 12%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.8061 Critical value: 0.5515 Outside Similar: Yes	Score: 106 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Smuts, Periconia, Myxomycetes				40
Total				93

Location: 21104001-21 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6364 Critical value: 0.5515 Outside Similar: Yes	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Smuts, Periconia, Myxomycetes				27
Total				27

Location: 21104001-21 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				N/A

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6970 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				53
				53

Location: 21104001-21 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.5152 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Torula				
Total				
				13
				13

Location: 21104001-21 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.8061 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Smuts, Periconia, Myxomycetes				
Total				
				53
				13
				67

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6970 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				53
				53

Location: 21104001-21 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
				N/A

Location: 21104001-21 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.5152 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Torula				
Total				
				13
				13

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken



Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.6970 Critical value: 0.5515 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Total				53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:

Northern California

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Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Outdoor Summary: 21104001-21 TM10OUT:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				110	13 - 160 - 5,200	76
Basidiospores				530	13 - 370 - 19,000	91
Chaetomium				13	7 - 13 - 150	11
Cladosporium				210	27 - 480 - 9,700	92
Nigrospora				13	7 - 13 - 230	16
Oidium				13	7 - 13 - 240	13
Other brown				120	7 - 13 - 110	28
Penicillium/Aspergillus types				110	13 - 180 - 2,500	74
Rusts				27	7 - 20 - 330	21
Smuts, Periconia, Myxomycetes				120	7 - 40 - 850	66
Torula				13	7 - 13 - 170	10
Total				1,280		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples**Location: 21104001-21 TM02**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.3773 Critical value: 0.5273 Outside Similar: No	Score: 102 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Rusts		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.6318 Critical value: 0.5273 Outside Similar: Yes	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Smuts, Periconia, Myxomycetes				40
Total				93

Location: 21104001-21 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.5273 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Smuts, Periconia, Myxomycetes				27
Total				27

Location: 21104001-21 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				N/A

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6023 Critical value: 0.5273 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				53
				53

Location: 21104001-21 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.2273 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Torula				
Total				
				13
				13

Location: 21104001-21 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.3077	dF: 11 Result: 0.6318 Critical value: 0.5273 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Smuts, Periconia, Myxomycetes				
Total				
				53
				13
				67

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6023 Critical value: 0.5273 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Cladosporium				
Total				53

Location: 21104001-21 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
None Detected				N/A

Location: 21104001-21 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.2273 Critical value: 0.5273 Outside Similar: No	Score: 105 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Torula				13
Total				13

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSTAT™: Supplementary Statistical Spore Trap Report**Location:** 21104001-21 TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 10 Result: 3.3523 Critical value: 18.3070 Inside Similar: Yes	Result: 0.1667	dF: 11 Result: 0.6023 Critical value: 0.5273 Outside Similar: Yes	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
Total				53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

Outdoor Sample: 21104001-21 TM01OUT

Fungi Identified	Outdoor sample spores/m ³				Raw count	Spores/m ³
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria	█	█	█	█	3	40
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium	█	█	█	█	26	1,400
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown	█				3	40
Other colorless	█				1	13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††	█	█			5	270
Botrytis	█				3	40
Oidium	█				3	40
Rusts	█				2	27
Smuts, Periconia, Myxomycetes††	█	█	█	█	51	680
Total						2,533

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					ND	< 13
Rusts					1	13
Smuts, Periconia, Myxomycetes††					1	13
Total						27

MoldSCORE [‡]															
100					200					300					Score
															100
															100
															100
															100
															100
															100
															100
															100
															100
															100
															105
															101
Final MoldSCORE															101

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					3	40				103
Total						93	Final MoldSCORE			103

Location: 21104001-21 TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					2	27				104
Total						27	Final MoldSCORE			104

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						N/A	Final MoldSCORE			100

Location: 21104001-21 TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			102

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					1	13				105
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						13	Final MoldSCORE			105

Location: 21104001-21 TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					1	13				100
Total						67	Final MoldSCORE			101

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			102

Location: 21104001-21 TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						N/A	Final MoldSCORE			100

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					1	13				105
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						13	Final MoldSCORE			105

Location: 21104001-21 TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			102

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Outdoor Sample:** 21104001-21 TM05OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					1	13
Bipolaris/Drechslera group					1	13
Chaetomium					5	67
Cladosporium					6	320
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Other colorless					1	13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					4	53
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					ND	< 13
Oidium					2	27
Rusts					1	13
Smuts, Periconia, Myxomycetes††					17	230
Total						760

Location: 21104001-21 TM02

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					1	13				105
Smuts, Periconia, Myxomycetes††					1	13				102
Total						27				
							Final MoldSCORE		102	

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					3	40				106
Total						93				
							Final MoldSCORE		106	

Location: 21104001-21 TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					2	27				105
Total						27				
							Final MoldSCORE		105	

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						N/A	Final MoldSCORE			100

Location: 21104001-21 TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					1	13				105
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						13	Final MoldSCORE			105

Location: 21104001-21 TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					1	13				101
Total						67	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			103

Location: 21104001-21 TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						N/A	Final MoldSCORE			100

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					1	13				105
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						13	Final MoldSCORE			105

Location: 21104001-21 TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Client: Hygiene Technologies International, Inc.:
Northern California
C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken
Tse
Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Outdoor Sample:** 21104001-21 TM10OUT

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					1	13
Cladosporium					4	210
Curvularia					ND	< 13
Nigrospora					1	13
Other brown					9	120
Penicillium/Aspergillus types†					2	110
Stachybotrys					ND	< 13
Torula					1	13
Seldom found growing indoors**						
Ascospores††					2	110
Basidiospores††					10	530
Oidium					1	13
Rusts					2	27
Smuts, Periconia, Myxomycetes††					9	120
Total						1,280

Location: 21104001-21 TM02

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
Generally able to grow indoors*						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					ND	< 13
Curvularia					ND	< 13
Nigrospora					ND	< 13
Penicillium/Aspergillus types†					ND	< 13
Stachybotrys					ND	< 13
Torula					ND	< 13
Seldom found growing indoors**						
Ascospores††					ND	< 13
Basidiospores††					ND	< 13
Rusts					1	13
Smuts, Periconia, Myxomycetes††					1	13
Total						27

MoldSCORE‡			
100	200	300	Score
			100
			100
			100
			100
			100
			100
			100
			100
			100
			100
			105
			102
Final MoldSCORE			102

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM03

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					3	40				107
Total						93				
							Final MoldSCORE		107	

Location: 21104001-21 TM04

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					2	27				105
Total						27				
							Final MoldSCORE		105	

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM06

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						N/A	Final MoldSCORE			100

Location: 21104001-21 TM07

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM08

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					1	13				105
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						13	Final MoldSCORE			105

Location: 21104001-21 TM09

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					1	13				102
Total						67	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM11

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			103

Location: 21104001-21 TM12

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						N/A	Final MoldSCORE			100

Client: Hygiene Technologies International, Inc.:

Northern California

C/O: Mr. Wesley Frey, Mr. Larry Sandhu, Mr. Ken

Tse

Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011

Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report**Location:** 21104001-21 TM13

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					1	13				105
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						13	Final MoldSCORE			105

Location: 21104001-21 TM14

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE [‡]			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types [†]					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores ^{††}					ND	< 13				100
Basidiospores ^{††}					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes ^{††}					ND	< 13				100
Total						53	Final MoldSCORE			103

Client: Hygiene Technologies International, Inc.:
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Re: 21104001-21; Sampled 4/28/11,4/29/11,5/3/11

Date of Receipt: 05-03-2011
Date of Report: 05-04-2011

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



HYGIENE TECH

Hygiene Technologies International, Inc.



000779521

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Torrance, California 90503-1643
(310) 370-8370
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www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 21104001-21 Date Submitted: 5/3/11

Project Contact: L-Sandhu / W. Frey / R-TSE Turnaround Required: Normal

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21104001-21 TMO1	75L	ATC-o-cell	Spare Trap
21104001-21 TMO2			
21104001-21 TMO3			
21104001-21 TMO4			
21104001-21 TMO5			
21104001-21 TMO6			
21104001-21 TMO7			
21104001-21 TMO8			
21104001-21 TMO9			
21104001-21 TMO10			
21104001-21 TMO11			
21104001-21 TMO12			
21104001-21 TMO13			
21104001-21 TMO14			

Special Instructions: 10th floor random sampling

1. Sampled by: Handhu on 4/28, 4/29 8:52, 14:18, 25:36 Received by: C. Schatz 5/3/11 10:50 AM

2. Relinquished by: KENTSE 5/3/11 10:50 Received by: _____

3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only: